



## Safety Data Sheet (SDS)

Revision / Review Date: 1/7/14

### 1. Chemical Product and Company Identification

|                                      |  |
|--------------------------------------|--|
| Product Name:                        | DMP  |
| Distributed By:                      | HB Chemical<br>1665 Enterprise Parkway<br>Twinsburg Oh 44087<br>Phone - 330-920-8023 |
| SDS Prepared By (w Suppliers Input): | HB Chemical  |
| Chemical Name / Family:              | Dimethyl phthalate   |
| Molecular Formula:                   | C10H10O4   |
| Molecular Weight via GPC, Mn:        | 194.18 g/mol   |
| Product Use:                         | Plasticizer  |
| OSHA Status:                         | Hazardous  |
| CAS No:                              | 131-11-3   |

For emergency health, safety, and environmental information, calls 330-920-8023.

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300.

### 2. Hazard(s) Identification

|                                   |  |
|-----------------------------------|--|
| <u>Target organs:</u>             | Central nervous system, respiratory system, eyes, mucous membranes.  |
| <u>Eye Contact:</u>               | May cause mild irritation.   |
| <u>Skin Contact:</u>              | May be mildly irritating to the skin.  |
| <u>Ingestion:</u>                 | May cause central nervous system depression and gastrointestinal irritation with nausea, vomiting and diarrhea.  |
| <u>Inhalation:</u>                | May cause respiratory tract irritation; irritating to nose, throat, and lungs. May cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma.  |
| <u>HMIS Hazard Ratings:</u>       | Health-1 ,      Flammability - 1,      Reactivity -0   |
| <u>HMIS limitation statement:</u> | The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material. |

### 3. Composition / Information on Ingredients

HB Chemical 1665 Enterprise Parkway Twinsburg, Ohio 44087

Phone 330-920-8023 Fax 330-920-0971

[www.hbchemical.com](http://www.hbchemical.com)

| Weight Percent / Typical | Component Identity | CAS Registry Number |
|--------------------------|--------------------|---------------------|
| 100%                     | Dimethyl phthalate | 131-11-3            |

#### **4. First Aid Measures**

|                    |   |
|--------------------|---|
| <u>Inhalation:</u> | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| <u>Eyes:</u>       | Flush eyes with water as a precaution.  |
| <u>Skin:</u>       | Wash off with soap and plenty of water. Consult a physician.  |
| <u>Ingestion:</u>  | Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.             |

#### **5. Fire-Fighting Measures**

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| <u>Suitable Extinguishing Media:</u>     | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| <u>Special Fire Fighting Procedures:</u> | Wear self-contained breathing apparatus for if necessary. Wear protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. |
| <u>Hazardous Combustion Products:</u>    | Carbon oxides.  |

#### **6. Accidental Release Measures**

|   |  |
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| <u>Steps to be taken in case material is spilled:</u> | Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. |
| <u>Environmental Disposal Information:</u>            | Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.  |

#### **7. Handling and Storage:**

|   |   |
|---|---|
| <u>Precautions to be taken in handling:</u> | Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use with adequate ventilation. |
| <u>Storage:</u>                             | Keep container tightly closed in a cool, dry and well-ventilated place.                             |

#### **8. Exposure Controls / Personal Protection**

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|                                  |  |
|----------------------------------|--|
| <u>Hand protection:</u>          | Wear rubber gloves.  |
| <u>Eye Protection:</u>           | Wear goggles.  |
| <u>Skin and Body Protection:</u> | Wear impervious clothing.  |
| <u>Engineering controls:</u>     | Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentration below the permissible exposure limits. |
| <u>Respirators:</u>              | Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.   |

### **9. Physical and Chemical Properties**

|                                       |   |
|---------------------------------------|---|
| <u>Physical Form:</u>                 | Clear colorless liquid                        |
| <u>Appearance &amp; Odor:</u>         | Clear/ slight odor                            |
| <u>Flash Point, TAG CC F:</u>         | 146.0°C (294.8 °F) - closed cup               |
| <u>Vapor Pressure ( mm Hg):</u>       | 0.0020 hPa (0.0015 mmHg) at 20.0 °C (68.0 °F) |
| <u>Vapor density:</u>                 | 6.69 (air=1)                                  |
| <u>Viscosity:</u>                     | 17.2 cPs 25°C                                 |
| <u>Relative density:</u>              | 1.19 g/cm <sup>3</sup> at 25 °C (77 °F)       |
| <u>Boiling Point (°F) Initial:</u>    | 282°C   |
| <u>Freezing point:</u>                | 2°C   |
| <u>Auto ignition Temperature, °C:</u> | 490.0 °C (914.0 °F)                           |

### **10. Stability and Reactivity**

|  |   |
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| <u>Stability:</u>                            | This product is stable under normal conditions.             |
| <u>Incompatibility (Materials to Avoid):</u> | Reacts with strong oxidizing agents, strong acid and bases. |
| <u>Hazardous decomposition products:</u>     | Carbon monoxide, carbon dioxide.                            |
| <u>Hazardous Polymerization:</u>             | Hazardous polymerization will not occur.                    |

### **11. Toxicological Information**

This material is not listed as a carcinogen or potential carcinogen by NTP, IARC, or OSHA.

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|----------------|--|
| <u>Dermal:</u> | Rabbit: LD50=10 ml/Kg (highest dose tested). |
|----------------|--|

|                                 |  |
|---------------------------------|--|
|                                 | Guinea pig: LD50=>10 mL/kg.  |
| <u>Eye Irritation (Rabbit):</u> | Slight.  |
| <u>Eye Irritation (Human):</u>  | Slight.  |
| <u>Draize test:</u>             | Rabbit, eye: 119mg   |
| <u>Oral:</u>                    | Mouse: LD50= 6800mg/kg.<br>Rabbit: LD50=4400 uL/kg.<br>Rat:LD50=6800 mg/kg.<br>Rat: LD50=6.9 ml/Kg.  |
| <u>Skin:</u>                    | Rabbit: LD50=>20 mL/kg.<br>Rat: LD50=>4800 mg/kg.  |
| <u>Teratogenicity:</u>          | Boys of moms highly exposed to phthalates show stunted genitals. The higher the levels of phthalates in the mothers during the final months of pregnancy, the less masculine their boys were when examined by pediatricians. |
| <u>Reproductive Effects:</u>    | The phthalate esters have been the subject of interest because of the reproductive and developmental toxicity of some members of this group such as DEHP.  |

## 12. Ecological Information

This material has not been evaluated for environmental effects.

|   |  |
|---|--|
| <u>Toxicity to fish:</u>                                    | LC50 - Pimephales promelas (fathead minnow) - 39 mg/l - 96 h.<br>LC50-Pimephales promelas (fathead minnow)-121,00 mg/l -96 h<br>LC50 - Oncorhynchus mykiss (rainbow trout) - 56,00 mg/l-96 h.<br>LC50 - Lepomis macrochirus (Bluegill) - 50,00 mg/l-96 h.<br>LC50-Cyprinodon variegatus(sheepshead minnow)29,00mg/l<br>96 h.<br>NOEC - Oncorhynchus mykiss (rainbow trout) - 38 mg/l-96 h. |
| <u>Toxicity to daphnia and other aquatic invertebrates:</u> | EC50 - Daphnia magna (Water flea) - 46.00 mg/l - 48 h.   |
| <u>Toxicity to algae:</u>                                   | Static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 204 mg/l - 72 h.  |
| <u>Biodegradability:</u>                                    | Aerobic -Exposure time 11d Result: 91 % -Readily biodegradable   |
| <u>Bioaccumulative potential:</u>                           | Bioaccumulation Lepomis macrochirus (Bluegill) - 21 d - 0.00874 mg/l. Bioconcentration factor (BCF): 57.   |

## 13. Disposal Considerations

Reclaim or Dispose of material in accordance with all applicable local, state, and federal regulations.

#### 14. Transport Information

|  |                      |
|--|----------------------|
| <u>D.O.T. Shipping Name:</u>                                   | Not dangerous goods. |
| <u>Air - ICAO (international Civil Aviation Organization):</u> | Not dangerous goods. |
| <u>Sea - IMDG (International Maritime Dangerous Goods):</u>    | Not dangerous goods. |

#### 15. Regulatory Information

All components of this material are on the TSCA Inventory.

All components of this material are on the Canadian DSL.

Massachusetts Right To Know Components: Dimethyl phthalate, CAS-No. 131-11-3

Pennsylvania Right To Know Components: Dimethyl phthalate, CAS-No. 131-11-3

New Jersey Right To Know Components: Dimethyl phthalate, CAS-No. 131-11-3

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA 313 Components: Dimethyl phthalate, CAS-No. 131-11-3

SARA 311/312 Hazards: No SARA Hazards.

#### 16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.